

REMARKS

The Office Action mailed May 5, 2005 has been carefully considered. Reconsideration in view of the following remarks is respectfully requested.

Priority Claim

The specification has been amended to include priority information pertaining to U.S. patent application Serial No. 08/616,071, filed March 14, 1996 (now U.S. Patent 5,745,837, issued April 28, 1998), consistent with the Declaration & Power of Attorney.

Claim Objections

The Office Action raised objections to the claims for various informalities, which have been addressed in this amendment.

Canceled Claims

Claims 102, 106, 112 – 131, and 138 - 143 have been canceled without prejudice or disclaimer of the subject matter contained therein.

Rejection(s) Under 35 U.S.C. § 112, Second Paragraph

Claims 84 – 138 and 140 were rejected under 35 U.S.C. § 112, second paragraph, as indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claims have been amended and/or canceled without prejudice, thereby obviating the 35 U.S.C. § 112, second paragraph rejection thereof.

Rejection(s) Pursuant to “Same Invention” Double Patenting

Claims 105 and 106; and 126 and 127 were rejected pursuant to “same invention” double patenting. Duplicative Claims 106 and 127 have been canceled without prejudice, obviating this rejection.

Subject Matter Indicated Allowed or Allowable

Applicants gratefully acknowledge the indication of allowability of claims 102, 104 – 106, 111 and 137 - 138, subject to the 35 U.S.C. §112 issues outlined in the Office Action and to their re-writing in independent form.

Claim 102 has been canceled, and its subject matter incorporated into Claims 84, with the exception of the terms “kiloframe” and “boundless,” which have been removed. “Kiloframe” was removed in order to avoid restricting the claim to a specific number of frames—that is, 1,000—as the particular number selected is arbitrary and is a matter of design choice. “Boundless” was

removed because the type of ranging performed is described in the claim, and the use of a specific term is unnecessary.

Claim 104 has been canceled, and its subject matter, after amendment to obviate the 35 U.S.C. §112 issues outlined in the Office Action, was combined with that of Claim 84 and incorporated into new, allowable base Claim 144. Claims 145 – 167, depending from allowable base Claim 144 and corresponding to dependent Claims 85 – 101, 103, 105 and 107 – 110, have been added.

Claim 105 has been amended to depend from allowable base Claim 84, and also re-written as Claim 163, dependent from newly added allowable base Claim 144.

Claim 106 has been canceled without prejudice.

Claim 111 has been re-written to depend from allowable base Claim 84.

Claim 138 has been canceled, and its subject matter incorporated into base Claim 132, from which Claims 133 – 137 directly or indirectly depend. The subject matter of Claim 137, along with that of Claims 132, 133 and 135, has also been combined into new Claim 168, and new claims 169 and 170, dependent from Claim 168 and corresponding to Claims 134 and 136, have been added.

Rejection(s) Under 35 U.S.C. §§ 102 and 103

Claims 84, 112 and 139 – 140 were rejected under 35 U.S.C. § 102(b) as anticipated by Moriya et al. (U.S. pat. no. 3,967,058). Claims 124 – 125 were rejected under 35 U.S.C. § 102(e) as anticipated by Bustamante et al. (U.S. pat. no. 5,548,583).

Claims 84 – 89, 95, 96, 98 – 100, 110, 112 – 114, 118, 121, 132 – 133 and 141 - 143 were rejected under 35 U.S.C. § 103(a) as unpatentable over Bustamante et al. in view of Moriya et al. Claims 115 – 117, 119 – 120 and 122 – 123 were rejected under 35 U.S.C. § 103(a) as unpatentable over Bustamante et al. in view of Moriya et al., and further in view of De Gauzenzi et al. (U.S. Pat. No. 5,327,455). Claims 90 – 93 were rejected under 35 U.S.C. § 103(a) as unpatentable over Bustamante et al. in view of Moriya et al., and further in view of Scarpa et al. (U.S. Pat. No. 5,673,293). Claims 97 and 101 were rejected under 35 U.S.C. § 103(a) as unpatentable over Bustamante et al. in view of Moriya et al., and further in view of Ko et al. (U.S. Pat. No. 5,511,099). Claims 103, 107 – 109, 126 – 131 and 134 – 136 were rejected under 35 U.S.C. § 103(a) as unpatentable over Bustamante et al. in view of Moriya et al., and further in view of Huang et al. (U.S. Pat. No. 5,511,096).

These rejections are moot in view of the amendments discussed above under the heading
Subject Matter Indicated Allowed or Allowable

Conclusion

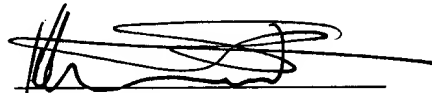
In view of the preceding discussion, Applicants respectfully urge that the claims of the present application define patentable subject matter and should be passed to allowance.

If the Examiner believes that a telephone call would help advance prosecution of the present invention, the Examiner is kindly invited to call the undersigned attorney at the number below.

Please charge any additional required fees, including those necessary to obtain extensions of time to render timely the filing of the instant Amendment and/or Reply to Office Action, or credit any overpayment not otherwise credited, to our deposit account no. 50-1698.

Respectfully submitted,
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Dated: 8/5/05


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